



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Steven Mark Eker and Patrick
 Denis Lincoln

Art Unit : 2151
Examiner : Unknown

Serial No. : 10/055,775

Filed : January 23, 2002

Title : MODELING REACTION PATHWAYS

Commissioner for Patents
Washington, D.C. 20231

RECEIVED
SEP 18 2002
Technology Center 2100

INFORMATION DISCLOSURE STATEMENT

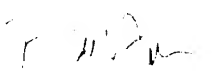
Applicant submits the reference listed on the attached form PTO-1449, a copy of which is enclosed.

This statement is being filed before the receipt of a first Office action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____



David L. Feigenbaum
Reg. No. 30,378

Fish & Richardson P.C.
225 Franklin Street
Boston, Massachusetts 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

20498302.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit September 11, 2002

Signature Cassandra Beepot

Typed or Printed Name of Person Signing Certificate Cassandra Beepot

SEP 16 2002

Sheet 1 of 2

Substitute Form PTO-100 (Modified)
Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
10454-021001Application No.
10/055,775**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant
Steven Mark Eker and Patrick Denis LincolnFiling Date
January 23, 2002Group Art Unit
2151

(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Publication/ Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,113,342	05/12/92	Zamora			
	AB	5,621,671	04/15/97	Bodnar			
	AC	5,805,461	09/08/98	Fant et al.			
	AD	5,914,891	06/22/99	McAdams et al.			
	AE	6,132,969	10/17/00	Stoughton et al.			
	AF	US 2002/ 0068269 A1	06/06/02	Allen et al.			03/12/01

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AG	WO 99/66067	12/23/99	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AH	Akutsu et al., "Identification of Genetic Networks from a Small Number of Gene Expression Patterns Under the Boolean Network Model", <i>Bioinformatics</i> 17-28
	AI	Akutsu et al., "Inferring qualitative relations in genetic networks and metabolic pathways", <i>Bioinformatics</i> 16(8):727-734 (2000)
	AJ	Becskei et al., "Engineering stability in gene networks by autoregulation", <i>Nature</i> 405:590-593 (2000)
	AK	D'haeseleer et al., "Genetic network inference: from co-expression clustering to reverse engineering", <i>Bioinformatics</i> 16(8):707-726 (2000)
	AL	Endy and Brent, "Modelling cellular behaviour", <i>Nature</i> 409:391-395 (2001)
	AM	Gibbs, W.W., "Cybernetic Cells", <i>Scientific American</i> 53-57 (August 2001)
	AN	Glass and Kauffman, "The Logical Analysis of Continuous, Non-linear Biochemical Control Networks", <i>J. Theor. Biol.</i> 39:103-129 (1973)
	AO	Karp, P.D., "An ontology for biological function based on molecular interactions", <i>Bioinformatics</i> 16:269-285 (2000)
	AP	Kauffman, S.A., "Metabolic Stability and Epigenesis in Randomly Constructed Genetic Nets", <i>J. Theoret. Biol.</i> 22:437-467 (1969)
	AQ	Kohn, K.W., "Molecular Interaction Map of the Mammalian Cell Cycle Control and DNA Repair Systems", <i>Molecular Biology of the Cell</i> 10:2703-2734 (1999)
	AR	Liang et al., "Reveal, A General Reverse Engineering Algorithm for Inference of Genetic Network Architectures", <i>Proc. Pacific Symp. On Biocomputing</i> 3:18-29
	AS	McAdams and Arkin, "Simulation of Prokaryotic Genetic Circuits", <i>Annu. Rev. Biophys. Struct.</i> 27:199-224 (1998)

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10454-021001	Application No 10/055,775
	Applicant Steven Mark Eker and Patrick Denis Lincoln		
	Filing Date January 23, 2002	Group Art Unit 2151	

RECEIVED
SEP 18 2002

Other Documents (include Author, Title, Date, and Place of Publication)

Technology Center 2100



Examiner Initial	Desig. ID	Document
	AT	McAdams and Shapiro, "Circuit Simulation of Genetic Networks", <i>Science</i> 269:650-656 (1995)
	AU	Mikulecky, D.C., "Modeling Intestinal Absorption and Other Nutrition-Related Processes Using PSPICE and STELLA", <i>Journal of Pediatric Gastroenterology and Nutrition</i> 11:7-20 (1990)
	AV	Novick and Weiner, "Enzyme Induction as an All-or-None Phenomenon*", <i>Proc. Nat. Acad. USA</i> 43:553-566 (1957)
	AW	Ogata et al., "Computation with the KEGG pathway database", <i>BioSystems</i> 47:119-128 (1998)
	AX	Ouzounis and Karp, "Global Properties of the Metabolic Map of <i>Escherichia coli</i> ", <i>Genome Research</i> 10:568-576 (2000)
	AY	Owre et al., "PVS: A Prototype Verification System", <i>11th International Conference on Automated Deduction (CADE)</i> 748-752 (1992)
	AZ	Rosen, R., "Recent Developments in the Theory of Control and Regulation of Cellular Processes", <i>International Review of Cytology</i> 23:25-88 (1968)
	AAA	Shea and Ackers, "The Or Control System of Bacteriophage Lambda A Physical-Chemical Model for Gene Regulation", <i>J. Mol. Biol</i> 181:211-230 (1985)
	ABB	Snoussi and Thomas, "Logical Identification of All Steady States: The Concept of Feedback Loop Characteristic States", <i>Bulletin of Mathematical Biology</i> 55:973-991 (1993)
	ACC	Somogyi and Sniegowski, "Modeling the Complexity of Genetic Networks: Understanding Multigenic and Pleiotropic Regulation", <i>Complexity</i> 1:45-64 (1996)
	ADD	Stahl, W. R., "Algorithmically Unsolvable Problems for a Cell Automaton", <i>J. Theoret. Biol.</i> 8:371-394 (1965)
	AEE	Stahl, W. R., "Self-Reproducing Automata", <i>Perspectives in Biology and Medicine</i> :373-393 (1965)
	AFF	Stahl and Goheen, "Molecular Algorithms", <i>J. Theoret. Biol.</i> 5:266-287 (1963)
	AGG	Sugita, M., "Functional Analysis of Chemical Systems <i>in vivo</i> using a Logical Circuit Equivalent. II. The Idea of a Molecular Automaton", <i>J. Theoret. Biol.</i> 4:179-192 (1963)
	AHH	Szallasi and Liang, "Modeling the Normal and Neoplastic Cell Cycle with "Realistic Boolean Genetic Networks": Their Application for Understanding Carcinogenesis and Assessing Therapeutic Strategies", <i>Proc. Pacific Symp. On Biocomputing</i> 3:66 (1998)
	AII	Thomas, R., "Boolean Formalization of Genetic Control Circuits", <i>J. Theor. Biol.</i> 42:563-585 (1973)
	AJJ	Thomas, R., "Regulatory Networks Seen as Asynchronous Automata: A Logical Description", <i>J. Theor. Biol.</i> 153:1-23 (1991)
	AKK	Thomas et al., "A Complex Control Circuit: Regulation of Immunity in Temperature Bacteriophages", <i>Eur. J. Biochem.</i> 71:211-227 (1976)
	ALL	Thomas et al., "Dynamical Behaviour of Biological Regulatory Networks -I. Biological Role of Feedback Loops and Practical Use of the Concept of the Loop-Characteristic State", <i>Bulletin of Mathematical Biology</i> 57:247-276 (1995)
	AMM	Weng et al., "Complexity in Biological Signaling Systems", <i>Science</i> 284:92-96 (1999)
	ANN	Yuh et al., "Genomic Cis-Regulatory Logic: Experimental and Computational Analysis of a Sea Urchin Gene", <i>Science</i> 279:1896-1902 (1998)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	